

software for women's health

obstetric and gynaecological database application

The astraiia Obstetrics module allows you to monitor carefully maternal and fetal health from pre-pregnancy through to delivery. astraiia helps you to document easily and accurately all relevant data of a pregnancy.

The well-structured and intuitive screens guide you easily through different kinds of examinations, such as ultrasound examinations, a range of risk assessments, invasive and non-invasive procedures, fetal and maternal doppler examinations and genetic counselling.

astraiia complements your measurements with additional information. Growth bars positioned alongside data fields show you deviations to the expected growth, based on internationally recognized publications – you can view the relevant chart with just one click. Using your input data and preferred methods, astraiia will automatically calculate important parameters such as the gestational age, biochemistry MoMs for various kit manufacturers, estimated fetal weight, relevant percentiles and the risk for various diseases and complications.

The FMF First Trimester Risk Calculation, built into astraiia's Obstetric screens, follows the specifications of Fetal Medicine Foundation London. astraiia even prepares your audit data for uploading to the FMF.

## With the Obstetrics module you can...

- ✓ monitor and document the whole pregnancy and prenatal diagnostics through to delivery, including diagnoses, outcome and conclusions.
- ✓ document and access easily and accurately antenatal history and diagnostic findings.
- ✓ perform step-by-step a complete ultrasound examination of the fetus and maternal structures.
- ✓ use the most adequate growth chart for your population to track the development of the fetus – by simply choosing from an up-to-date list of internationally recognized growth charts.
- ✓ see at a glance significant deviations in the fetus' growth via growth bars.
- ✓ use automatic calculations of important parameters such as the gestational age, biochemistry MoMs for various kit manufacturers, estimated fetal weight, relevant percentiles or the risk for various diseases and complications.
- ✓ perform a range of risk assessments, such as the FMF First Trimester Risk Calculation which follows the specifications of the FMF London (available for certified doctors).
- ✓ save time by updating your FMF license from within astraiia and by exporting easily your examination data for the FMF audit.
- ✓ document systematically invasive and non-invasive procedures.
- ✓ make use of specialized fetal and maternal doppler screens.
- ✓ document your genetic counselling results in a well structured way.
- ✓ visualize family history with a pedigree builder.

The screenshot displays the astraiia software interface with several callout boxes:

- Info buttons give easy access to content related medical references:** Points to a blue 'i' icon in the top right corner of the main data entry screen.
- Growth bars give a quick indication of deviations:** Points to a red dot on a horizontal bar chart, indicating a deviation from the expected range.

The main interface shows a patient record for 'Patient: 1. Astraiia GmbH, 0001051971, 1971, age 34'. It includes fields for gestational age (12 weeks), EDD by scan (25/12/2012), and EDD by dates (25/12/2012). The interface is divided into sections for 'Ultrasound', 'Biochemistry', and 'Risk calculation'. A '1st trimester risk of trisomy 21' chart is visible, showing a risk level of 1:54. The bottom of the screen shows a 'Pedigree builder' section with fields for 'Ancestral frequency', 'Maternal frequency', and 'Paternal frequency'.

## Well organized administration of data

astraia makes it possible for you to have a comprehensive, structured and always accessible documentation finished when the patient walks out of the door. When the patient comes in for the next visit, all medical history and previous examination data is available to you and can be reviewed at one glance. astraia minimizes the need of keeping paper based notes, reminders and documents. That does not only reduce storage space and printing costs, it also stops the hassle of manually searching for archived documents.

## Structured reports

You can generate appealing reports containing all relevant data with just one click. A set of standardized reports is available for all major exam types. With their clear design and your personal letter header, the reports are a great way to present your examination results and diagnosis to patients and colleagues. Images, drawings and charts are added easily to each report. You can share your reports by e-mail, printouts, fax or internal network.

## Highly customizable program

astraia's strength is to meet the individual needs of our customers. The modular structure allows you to decide exactly which modules you need. Within astraia you can furthermore adapt the screens to your clinical workflow - distinguishing even the different workflows of user groups.

## Exact imaging and measurements

Transfer DICOM images, clips and volumes (3D/4D) with one click from your ultrasound device to astraia, adjust them and make annotations. Measurements can be taken directly in the astraia Image Viewer and values transferred automatically to the right data field. Being unambiguously assigned to the patient, no images get lost or mixed up.

## Seamless integration with network and interfaces

astraia is able to communicate with external systems and devices. Within a network, astraia transfers images, measurements and patient data smoothly between workstations, ultrasound machines, PACS, hospital information systems and laboratory devices. Using DICOM, HL7 and other standards, astraia links all diagnostic instruments of virtually all manufacturers and integrates seamlessly with existing patient and hospital information systems (HIS).

## Utmost safety and quality control

astraia has been designed with safety in mind. All data is stored safely in a database that allows automatic backups at a customizable predefined schedule. A built-in audit trail tracks exactly who entered, changed or printed what and when. This feature does not only prove consistency and avoid fraud, it also helps to monitor users for quality control.

## Translated and localized versions

astraia is available in more than 20 languages. You can switch quickly between languages - even during the examination - to facilitate communication in a multilingual environment or participate easily in international multicentre studies. For various regions astraia offers specific screen presentations to meet best the local requirements. All astraia translations pass a strict quality assurance procedure. Our translators are native medical professionals with high reputation in their countries. We put a lot of effort into detail and consistency, and we are very proud to have established this unprecedented standard and a unified medical terminology in the languages we support.

## Easy query builder

The possibility to easily query data from your database is invaluable for studies and quality control. The integrated query tool offers a list of predefined queries, ready to be used. Building your own - even complex - query is just as easy: click on the fields in the query builder and set the conditions. The query results can be viewed, printed or exported into various standard formats for further processing. You can also export and share your queries with colleagues.

## Profound analysis with statistical audit tools

The statistical audit tools allows you to do a profound analysis of the 2nd trimester biometry measurements, FMU and EPU statistic, a KC65 Colposcopy report, and of course the First Trimester Audit, which is sent directly to the Fetal Medicine Foundation London, UK. Audits can be run for each individual sonographer separately or for a whole centre. The Automatic Audit option offers you to perform a set of database queries at a preset time. All queries can be synchronized between centres via the internet. And, of course, all data is encrypted.

## Certified quality

Software used in a clinical environment has to fulfill highest quality standards. With astraia being classified as medical device Class IIa, and in some countries as IVD, we know one thing is key: medical software has to be safe. Besides regular internal quality audits we undergo a yearly external audit performed by our local authority to make sure all our processes are flawless. There is no room for failure.

## World class customer support

We are famous for our personal and qualified customer care. Whether you need our hotline service, remote support or training on site, our Service & Support team is available to ensure on-time and efficient support. With our Software Maintenance Agreement, you always receive the latest software upgrades to assure that you are up to date with features and software improvements.

For more information visit [www.astraia.com](http://www.astraia.com) or contact us at [info@astraia.com](mailto:info@astraia.com)

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